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33N1/0617

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**NOTICE OF ALLOWANCE
AND ISSUE FEE DUE**

- ☐ Note attached communication from the Examiner
☐ This notice is issued in view of applicant's communication filed _____

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
07/929,449	08/14/92	013	SHAY, R	3308 06/17/94
First Named Applicant	FINK,	DAVID J.		

TITLE OF INVENTION RAPID, CUSTOMIZED BONE PROSTHESIS

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
3 GUI-108	623-016.000	B83	UTILITY	YES	\$585.00	09/19/94

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

I. Review the SMALL ENTITY Status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the Status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
B. If the Status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by a charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, Part C of this notice should also be completed and returned.

III. All communications regarding this application must give series code (or filing date), serial number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees.

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07/929,449 08/ '92
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SHAY, R GUI-108
UNITED STATES DEPARTMENT OF COMMERCE
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E. Calbert

6-1384

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	FIGURE DOCKET NO.
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07/929,449 08/14/92 FINK

D GUI-108

SHAY, R

33N1/0617

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APPLICANT PAPER NUMBER

3308

DATE OF RECEIPT

06/17/94

NOTICE OF ALLOWABILITY

PART I.

1. ☒ This communication is responsive to the communication of 6/13/94
2. ☒ All the claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due course.
3. ☒ The allowed claims are 1-13
4. ☐ The drawings filed on _____ are acceptable.
5. ☐ Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has [] been received, [] not been received, [] been filed in parent application Serial No. _____, filed on _____.
6. ☒ Note the attached Examiner's Amendment.
7. ☒ Note the attached Examiner Interview Summary Record, PTOL-413.
8. ☐ Note the attached Examiner's Statement of Reasons for Allowance.
9. ☐ Note the attached NOTICE OF REFERENCES CITED, PTO-892.
10. ☐ Note the attached INFORMATION DISCLOSURE CITATION, PTO-1449.

PART II.

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

1. ☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
2. ☒ APPLICANT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE OF THIS PAPER.
 - a. ☒ Drawing informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached ~~hereto~~ to Paper No. 5. CORRECTION IS REQUIRED.
 - b. ☐ The proposed drawing correction filed on _____ has been approved by the examiner. CORRECTION IS REQUIRED.
 - c. ☐ Approved drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS REQUIRED.
 - d. ☒ Formal drawings are now REQUIRED.

Any response to this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.

Attachments:

- ☒ Examiner's Amendment
- ☒ Examiner Interview Summary Record, PTOL-413
- ☐ Reasons for Allowance
- ☐ Notice of References Cited, PTO-892
- ☐ Information Disclosure Citation, PTO-1449

- ☐ Notice of Informal Application, PTO-152
- ☐ Notice re Patent Drawings, PTO-948
- ☐ Listing of Bonded Draftsmen
- ☐ Other

Serial Number: 07/929,449

-2-

Art Unit: 3308

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Frank Foster on June 16, 1994.

2. In claim 6, on line 2 --step of solidifying a-- has been inserted before "fluid" and "is" has been deleted and replaced with --comprises bonding--.

In claim 7, on line 2 --step of solidifying a-- has been inserted before "fluid", --sintering-- has been inserted before "ceramic", and on lines 2/3 "which are sintered" has been deleted.

In claim 8, on line 2 --step of solidifying a-- has been inserted before "fluid", --bonding-- has been inserted before "particles", and "which are cemented" has been deleted and replaced with --of a first ceramic material--, and on line 3 --particles of-- has been inserted before "a".

The following has been added following the claims:

ABSTRACT

Prosthetic bone implants are fabricated to approximately replicate a patient's original bone. Medical computer aided imaging techniques are applied to generate a data base representing the size and shape of the original bone in a three

151

28

Serial Number: 07/929,449

-3-

Art Unit: 3308

b1
concluded

dimensional coordinate system. The implantable replica is fabricated using the data base and free form manufacturing to sequentially solidify adjoining, cross-sectional intervals of a fluid material. Appropriate fluid materials include ceramic particles which may be selectively bonded by sintering or bonding with a polymer, and a monomer which is polymerized at selected regions by an incident laser beam. --

Any inquiry concerning this communication should be directed to Randy Shay at telephone number (703) 308-2907 on Mondays and Thursdays.

R. Shay

June 16, 1994

Randy Shay
Randy C. Shay
Primary Examiner
Art Unit 338